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# **Math Test Three**

**Difficulty: 10**

Name: \_\_\_\_\_

**70 Questions For  
You!**

## **Directions to Answering Each Question**

1. Work the problem to find the answer.
2. Simplify any fractions when possible.
3. Fill in every blank in the question indicated by the black lines.
4. If you are greeted with a multiple-choice box, choose the best answer in that box.
5. Write the numbers greater than 999 with commas for the thousands, the millions, etc. to receive credit.

**GO ON TO THE NEXT PAGE TO  
START THE TEST**

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**Use pieces of paper to do your work. If you change your answer, be sure to erase the old answer completely.**

- 1 What is  $48.58 + 957.6$ ? \_\_\_\_\_
- 2 Solve for  $0.0803 \div 0.11$ . \_\_\_\_\_
- 3 What's the answer to  $22.92 - 2.249$ ? \_\_\_\_\_
- 4 When you multiply 6.62 by 5.87, what do you get? \_\_\_\_\_
- 5 Subtract 24.09 from 99.15. \_\_\_\_\_
- 6 A number,  $k$ , is rounded to the nearest 0.0005.  
The result is 0.04.  
What's the error interval for  $k$ ?  
\_\_\_\_\_ [  $<$  or  $\leq$  ]  $k$  [  $<$  or  $\leq$  ] \_\_\_\_\_
- 7 Compute  $4.4 - (-27.5)$ . \_\_\_\_\_
- 8 What's the answer to the following math problem?  
 $(-12) + (-3) + (-22) + (-4) + (-23)$   
\_\_\_\_\_
- 9 -85.5 and 38.25 are apart by how much?  
\_\_\_\_\_
- 10 What is negative fifty-one divided by negative one point seven?  
\_\_\_\_\_
- 11 What is the result of calculating this math problem?  
 $23 + (-13) + 9 + (-15) + 25$   
\_\_\_\_\_
- 12 Solve this math problem:  
 $-0.5 \times -9$   
\_\_\_\_\_
- 13 The temperature increased by  $18.7^{\circ}\text{C}$  from  $12.1^{\circ}\text{C}$ .  
What is the new temperature? \_\_\_\_\_  $^{\circ}\text{C}$
- 14 Rewrite this calculation as a sum:  
 $(-22) - 2 - 10 - (-20) - 18$   
\_\_\_\_\_

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15 What's the correct answer to this?

$$16 - 6 - (-3) - (-18) - (-19)$$

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16 What is 40.7002 doubled? \_\_\_\_\_

17 What are all the factors of 1,576?

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18 Convert 9.36 to a percentage. \_\_\_\_\_

19 As a percentage, what is  $9\frac{3}{5}$ ? \_\_\_\_\_

20 Write 553% as a fraction.

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21 What's  $0.\overline{47895454}$ ... as a fraction? Simplify your answer where possible.

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22 Given that  $\frac{16}{128} = 0.125$ , what is  $\frac{16}{256}$  as a decimal?

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23 Do:

$$2\frac{3}{5} - 3\frac{7}{14} + 1\frac{6}{17}$$

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24 Write  $\frac{357}{41}$  as a mixed number.

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25 What is  $3\frac{1}{2}$  as an improper fraction?

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26 What is two and three-fourths divided by three and four-twelfths divided by one and five-sixths?

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27  $2\frac{7}{10} \div 1\frac{8}{13} \times 2\frac{1}{8}$  is what?

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28 Adding 84 to a number  $3\frac{1}{7}$  times that will give what?

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29 What are all the integers between  $-13/6$  and  $-33/8$ ?

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30 Multiply  $3\frac{5}{6}$  by  $1\frac{4}{8}$  by  $2\frac{5}{11}$ .

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31 What's  $1\frac{1}{28}$  of 700?

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32  $\frac{1}{50}$  of an amount is 15.

What is  $\frac{3}{2}$  of the amount? \_\_\_\_\_

33 Simplify  $29/609$  fully.

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34 Find half of 82.164. \_\_\_\_\_

35 Simplify:

$$81^{-1} \div 81^{-3}$$

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36 Write  $(4^{-8})^5$  as a single power of 2. \_\_\_\_\_

37 When simplified, what is the expression for  $256^{-3}$  times  $16^5$ ?

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38 Make  $(4^{-2})^{12}$  a single power of 2. \_\_\_\_\_

39 What is the 29th multiple of 80 after 0? \_\_\_\_\_

40  $7,594 + 9,999 =$  \_\_\_\_\_

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- 41 What is  $13 - 10 + 5 - 13 + 8 - 8 + 5$ ? \_\_\_\_\_
- 42 Compute  $3 \times 18 \div 11 \times 44 \div 3 \times 15 \div 6$ . \_\_\_\_\_
- 43 150% of an amount is 1,125. Find the answer for 2% of the amount.  
\_\_\_\_\_
- 44 What is 4.2559 multiplied by 10,000? \_\_\_\_\_
- 45 The numbers for this question are -0.09, -22, -28, and -21.  
Write them in descending order.  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- 46  $2.9^2 = 8.41$   
What is  $2,900^2$ ? \_\_\_\_\_
- 47 What is 243 to the  $-\frac{1}{5}$ ?  
\_\_\_\_\_
- 48 What is  $\sqrt{396} + \sqrt{891}$  after full simplification?  
\_\_\_\_\_
- 49 There are three consecutive integers that, when multiplied together,  
result in the number -990. What are those integers?  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
- 50 Please express 33,075 as the product of its prime factors.  
 $33,075 =$  \_\_\_\_\_
- 51 What is the highest common factor of 44, 231, and 154? \_\_\_\_\_
- 52 How many factors does 196,196 have? \_\_\_\_\_
- 53 Complete the following sentence.  
The lowest natural number that is a multiple of 184, 120, and 40 is  
\_\_\_\_\_.
- 54 Fill in the blank.  
\_\_\_\_\_ $\times 98 = 196 \times 14$
- 55 What's  $\sqrt{108} \times \sqrt{539}$ ? Simplify where possible. \_\_\_\_\_

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- 56 Rationalize the denominator and simplify.

$$\frac{10 - \sqrt{65}}{\sqrt{35}}$$

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- 57 Is  $\frac{122}{480}$  a terminating or recurring decimal?

122/480 is a \_\_\_\_\_ decimal.

- 58 What is  $\sqrt{1,080}$  when simplified? \_\_\_\_\_

- 59 Round 8,026.3 to 4 significant figures. \_\_\_\_\_

- 60 What is  $(9 \times 10^{-7}) + (5 \times 10^{-2})$ ? Write in scientific notation.

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- 61 As an ordinary number, what is  $5.8 \times 10^7$ ? \_\_\_\_\_

- 62 Write  $21 \times 10^{-1}$  in standard form. \_\_\_\_\_

- 63 Calculate  $(4.6 \times 10^{-12}) \div (2 \times 10^{-2})$ . Write in scientific notation for questions 63 to 65. \_\_\_\_\_

- 64 What is  $(1.9 \times 10^{-25}) \times (1.2 \times 10^{-8})$ ? \_\_\_\_\_

- 65 Do  $(6 \times 10^{-8}) - (8 \times 10^{-12})$ . \_\_\_\_\_

- 66 A circle has a center located at (39, 5) and a radius of 29.  
State the equation of the circle. \_\_\_\_\_

- 67 What are the values of y for the following equation and values of x?  
 $y = 5x^3 - 2x^2 - 6x + 14$

When  $x = 5$ ,  $y =$  \_\_\_\_\_

When  $x = 6$ ,  $y =$  \_\_\_\_\_

When  $x = 7$ ,  $y =$  \_\_\_\_\_

When  $x = 8$ ,  $y =$  \_\_\_\_\_

When  $x = 9$ ,  $y =$  \_\_\_\_\_

When  $x = 10$ ,  $y =$  \_\_\_\_\_

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68 If  $20x = 513$ , then what is  $-20(x + 1)$ ? \_\_\_\_\_

69 Solve for x:

$$x^2 = 196$$

$$x = \underline{\hspace{2cm}}$$

70 What is the value of x for this math problem?

$$18 : 20 = x : 4$$

$$x = \underline{\hspace{2cm}}$$

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